

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



DE 2004/006209 A1

(43) International Publication Date
15 January 2004 (15.01.2004)

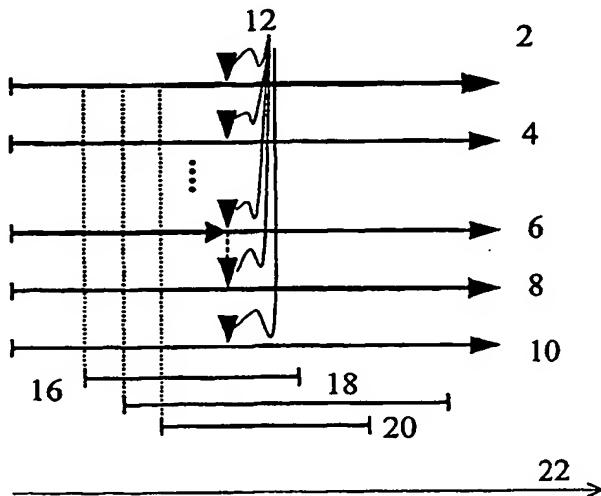
PCT

(10) International Publication Number
WO 2004/006209 A1

- (51) International Patent Classification⁷: G09B 5/06, H04Q 1/00, 3/00
- (21) International Application Number: PCT/IB2002/002614
- (22) International Filing Date: 4 July 2002 (04.07.2002)
- (25) Filing Language: English
- (26) Publication Language: English
- (71) Applicant (*for all designated States except US*): NOKIA CORPORATION [FI/FI]; Keilalahdentie 4, FIN-02150 Espoo (FI).
- (72) Inventors; and
- (75) Inventors/Applicants (*for US only*): THEIMER, Wolfgang [DE/DE]; Am Hohwege 10, 44879 Bochum (DE). HABERLAND-SCHLÖSSER, Knut [DE/DE]; Hordeker Strasse 37, 44809 Bochum (DE). WEINGART, Peter [DE/DE]; Oskar-Hoffmann-Strasse 122, 44789 Bochum (DE). SERAFAT, Reza [DE/DE]; Oskar-Hoffmann-Strasse 164, 44789 Bochum (DE). LÜCK, Matthias [DE/DE]; Neuer Graben 59, 44139 Dortmund (DE). GÖRTZ, Udo [DE/DE]; Im Haarmannsbuch 154, 44139 Dortmund (DE).
- (74) Agent: KURIG, Thomas; Becker, Kurig, Straus, Bavariastrasse 7, 80336 München (DE).
- (81) Designated States (*national*): AB, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW.
- (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:
— with international search report

[Continued on next page]

(54) Title: METHOD AND DEVICE FOR REPRODUCING MULTI-TRACK DATA ACCORDING TO PREDETERMINED CONDITIONS



(57) **Abstract:** The present invention provides a mass storage, an electronic multi-track reproducer, and a method to reproduce multi-track data. The invention is to provide the possibility to change reproduction medium according to present environmental conditions, e.g. to change from a text reproduction seamlessly to the reproduction of a radio play, in case environmental conditions indicate that the user is actually not capable of reading because of vibrations or a too low illumination. To provide these features to a user, a mass storage, a multi-track reproducer, and a method for reproducing the tracks according to detected environmental conditions is provided. Said invention is based on multi-track data, wherein at least a subset of said tracks is sufficient for a basic perception of said data, and at least two of said tracks are provided with synchronization markers. The reproduction can seamlessly jump between the different tracks and reproduction modes, as the tracks are synchronized by the markers.

WO 2004/006209 A1